MISSOURI BOTANICAL GARDEN

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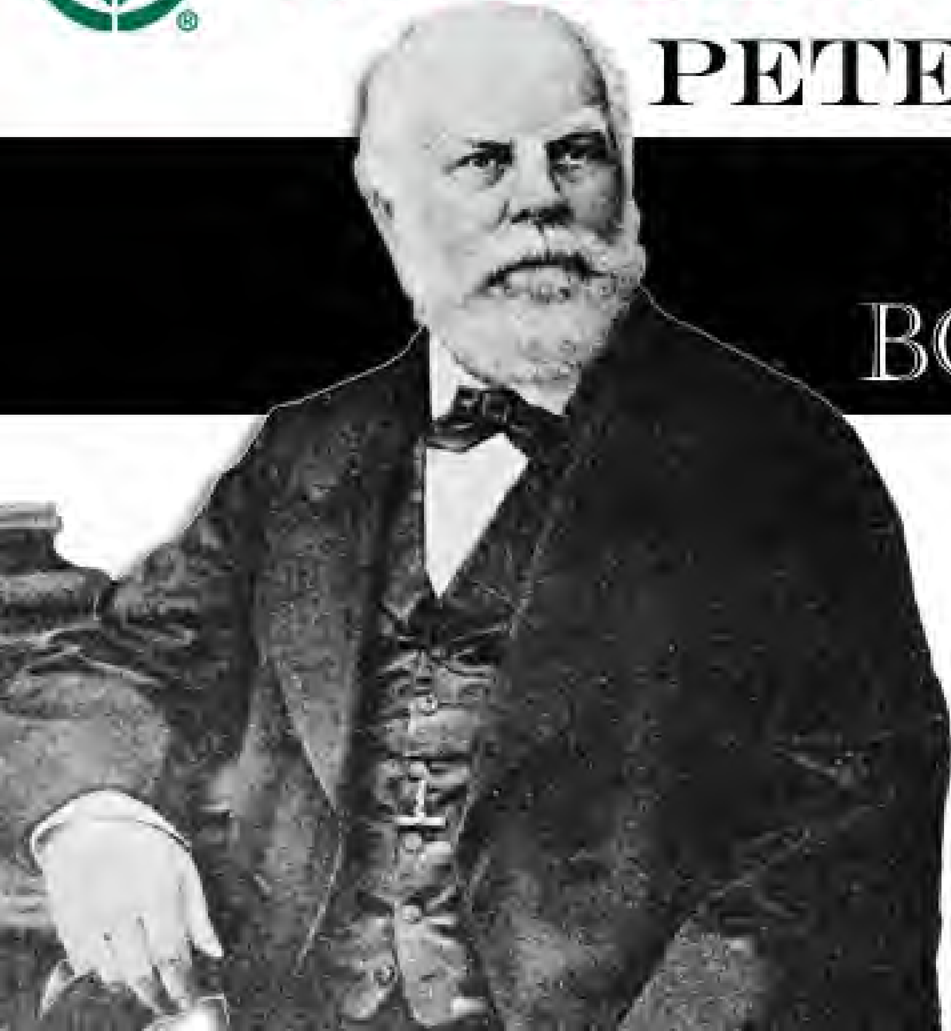

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

Pagination Note:
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1682-99

Sequoia

0 1 2 3 4 5 6 7 8 9 10
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10791

Cynoglossum officinale L.
huc C. bicolor W.

Spr I, 563
R II, 158

Europ. Asia. Afr. Amer. bor.

Fr, 1820

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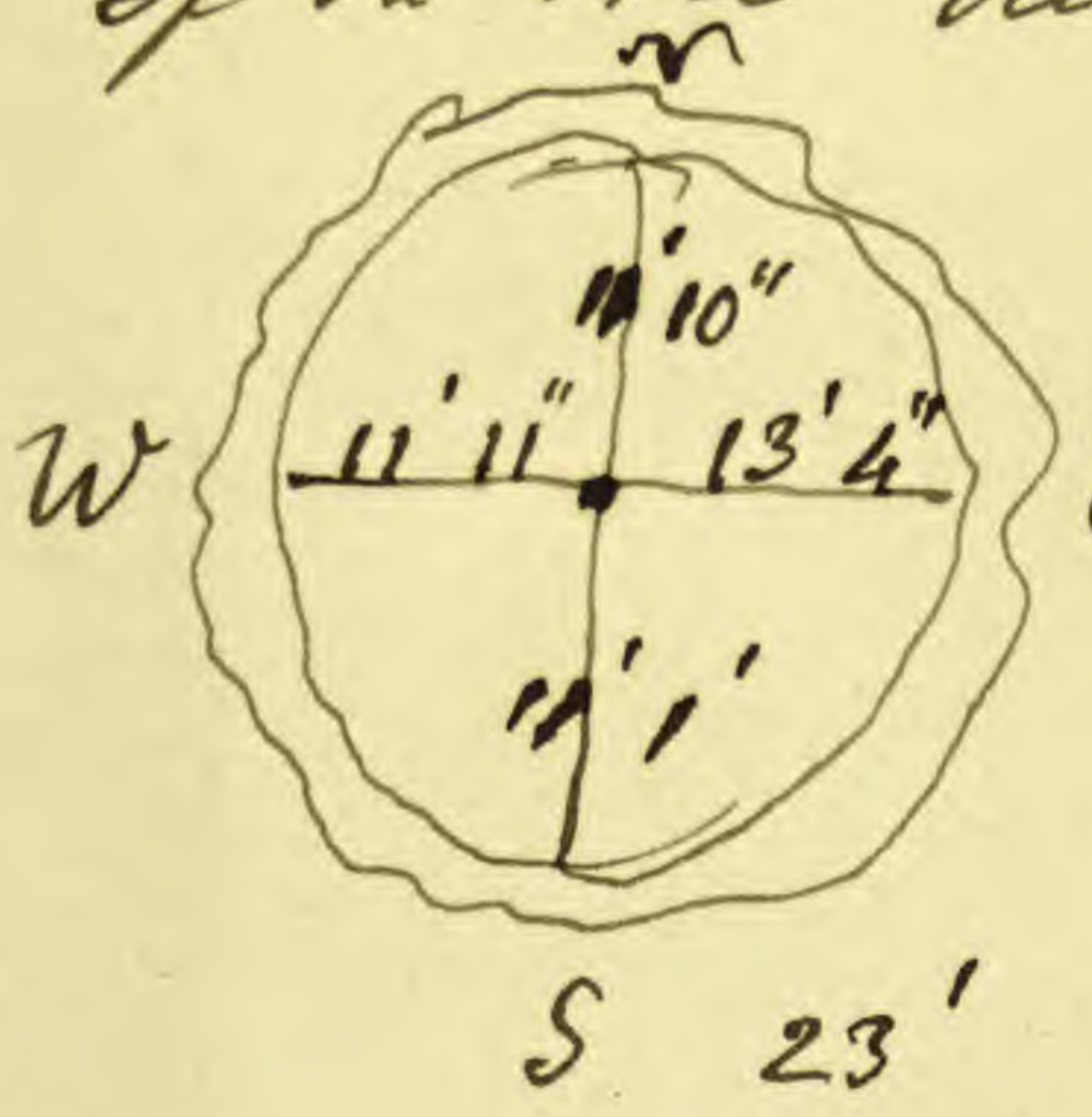
Sequoia gigantea   Brewers Notes

1863 Prof Whitney carefully counted rings from outside to inside of the tree that was felled a few years ago. Stump 6 feet high

Diameter without bark 23' and 25'3"



E 25'3" Sap 4.7 inches, white heartwood red, weathering black.

Annual rings 30 feet from base (Whitney)

Exact copy

Years	inches & tenths	inches & tenths	Date
1255	3	3	185
1155	3.7	3.3	175
1055	4.1	4.0	165
955	3.9	4.1	155
855	4.1	4 0	145
755	4.1	4.1	135
655	4.2	4.6	125
555	5.6	5.6	115
455	7.3	7.3	105
355	7.9	7.7	95
255	10.1		85
155	13.0		75
55	9.4		65
12)	80.4		6
	6 84		

A belt of Sequoia between Big Meadows & Visalia July 12-16 1864 –
belt 4-5 miles wide, 2500 feet alt. – Many trees 10-12 feet diam
(none seen over 20-23 feet) – Trees cut, split as well as S. sempervirens
A tree was counted. Diam of wood (without bark) 8' – 377 years old
. Sap of trees 8 or 10 feet diam is 4-7 inches thick

10792

St. Louis, April 1. 78.

Hochverehrter Herr Doctor!

Dr. Schwalbe in Leipzig telegraphirt, räth zu dem Vorschlag zur Bestätigung der Palm'schen Sache annehmen.

Ich darf wohl hoffen, die Angelegenheit jetzt in den nächsten Tagen mit Ernst zu erledigen.

Hochachtungsvoll
Ihr
ergebenster
Gerlich.

Sequoia sempervirens

Lemmon says: only 100 miles north and south of the Golden Gate on the Coast range

Oft 200 - 300 feet high and at base 60 - 100 feet circumference

About 30 groves of Sequoia on the western Slope of the Sierras

Sequoia gigantea

Hooker writes to Lemmon, who protests against the name "wellingtonia", like a "full-blooded Englishman" (Lemmon) thus:

wellingtonia is a misnomer in a scientific sense but not in a vernacular sense ... the name wellingtonia is rooted as deep in England and Europe as the „big tree" in its California soil, and the people of England and Europe who know the Big Tree only by the name of Wellingtonia are as numerous as the leaves of the bigger Sequoia. Colloquial languages are means, not ends, and the conveniences of the day and hour will carry the day in the face of all argument and all science. It is only wisdom to accept the inevitable. You might as well attempt to restore the Dutch name of New York to the American vernacular as to force "Sequoia" upon the English and Continental vernacular ... After all, what does it matter? the botanist knows "Sequoia", but the uneducated only know "Wellingtonia". That serves the purpose.

— a "special pleader" (Lemmon)

Gordons Pinetum, a scientific work, has also Wellingtonia

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Walter Coles M.D.

Sir

I have the honor to inform you that at the regular meeting of the St Louis Obstetrical and Gynecological Society held on the 19th of September 1878 you were elected a Fellow of this Society

Most Respectfully Yours

President

Geo. J. Engelmann M.D.
Corresponding Secretary

St Louis September 20, 1878.

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H. Bolander an Engelmann, March 1864

~~No 4 xx. Torreya Californica~~
~~Nutmeg tree.~~
~~This tree is always scattered solitary. Branches irregularly attached branchlets somewhat drooping (slender) Wood valuable.~~
~~My contribution consists of branches with flower-buds, a piece of the bark, 3 & 4 ripe seeds with the fruit in alcohol.~~
~~The aments, opened, I hope to receive before the box is sent.~~
~~It grows in light soil among the Redwoods.~~

No 5 xx Sequoia sempervirens Egr.
Redwood. Common on the coast ranges on the north or or easter slopes, generally in groups or groves. Always within a short distance of the sea coast, here 20 miles including the bay which is 10 mi. wide. But it is a strange

10794

fact that none of these trees
are found on the first range running
parallel with the ocean; here it
is replaced by Abies Douglasii.
This is the case around here, I
am very anxious to learn if this
is also the case in Mendocino Co.
We had trees in our vicinity 14 feet
in diameter. The tree grows ex-
ceedingly quickly, really astonishing.
The wood is very coarse grained, red
and durable in the ground as well
as in the air: as fence rails, shingles &.
It burns rapidly, too rapid to use
it for that, except in a case of necessi-
ty. Here it is used by the farmers
mostly for picket fences and shingles
Bark rough and very thick, deeply
furrowed.

Branches with old cones, young ones
& aments. One paper contains two branchlets
with short scaly leaves. In Mendocino Co. are large
trees whose foliage is all like those. I never
observed them on young trees.

Prof. Brewer will give you some facts
in regard to its distribution &c.

Sequoia sempervirens was discovered by Menzies 1796, again by Douglas 1830, introduced into Europe 1840

Brewer

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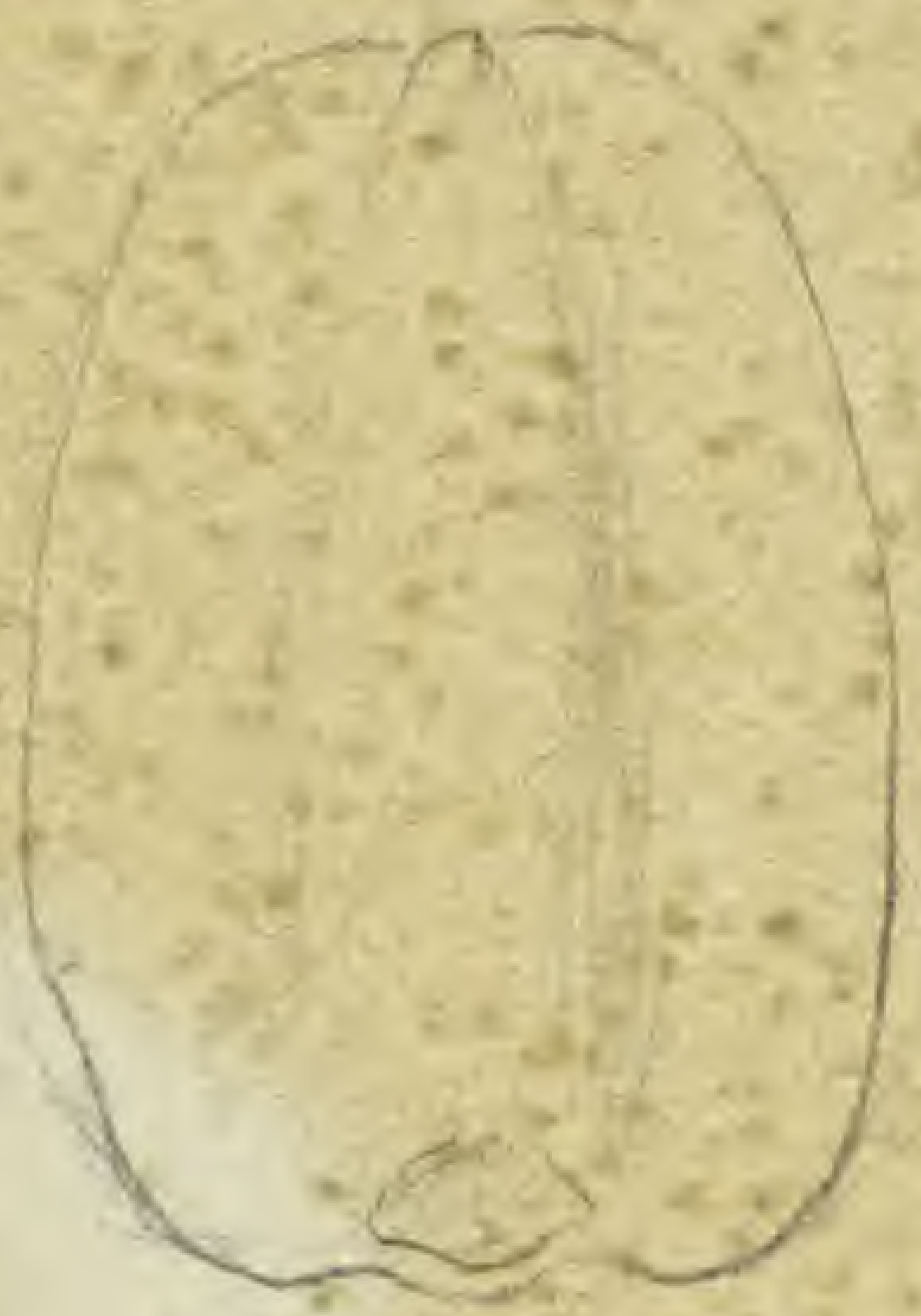
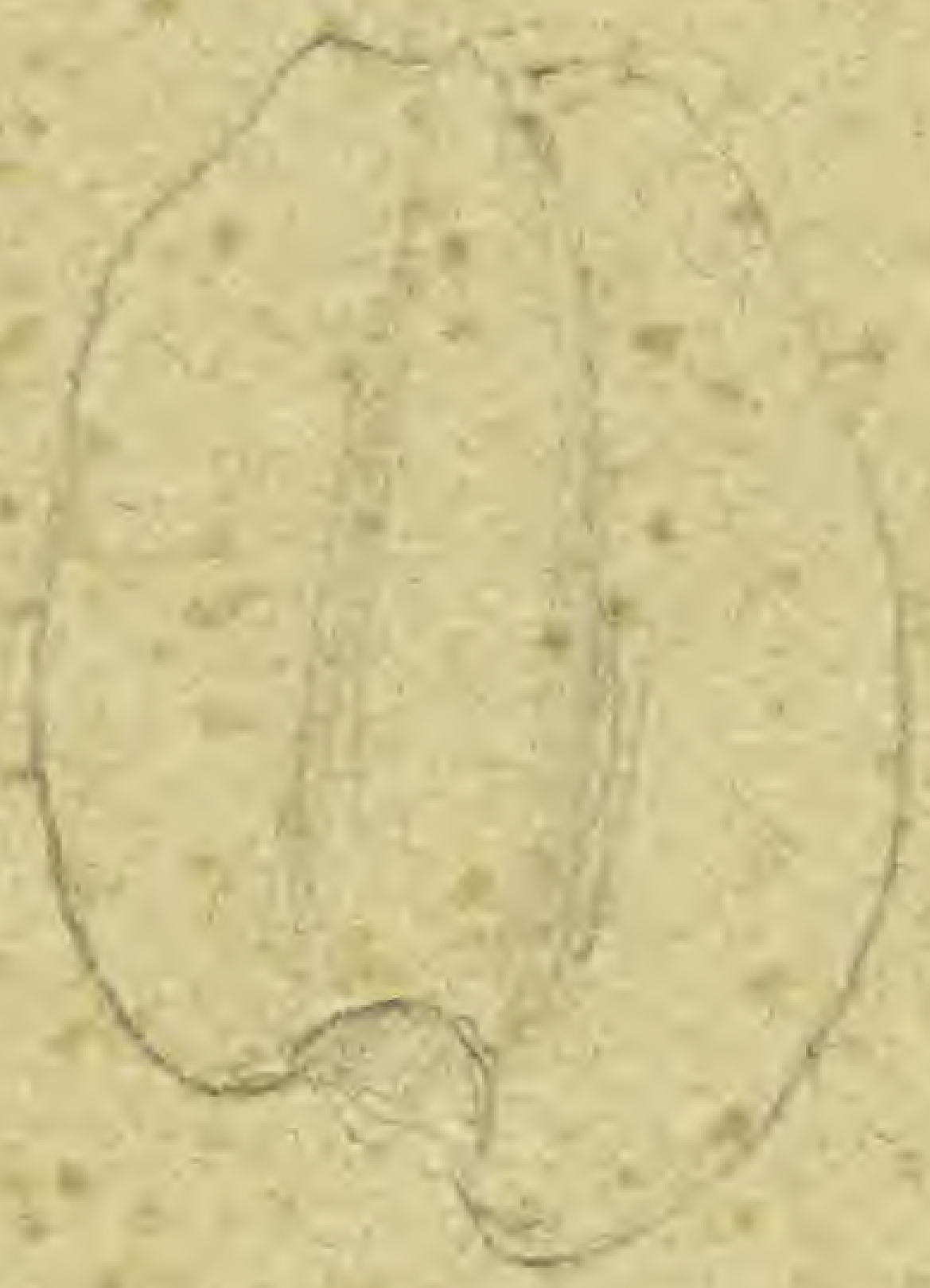
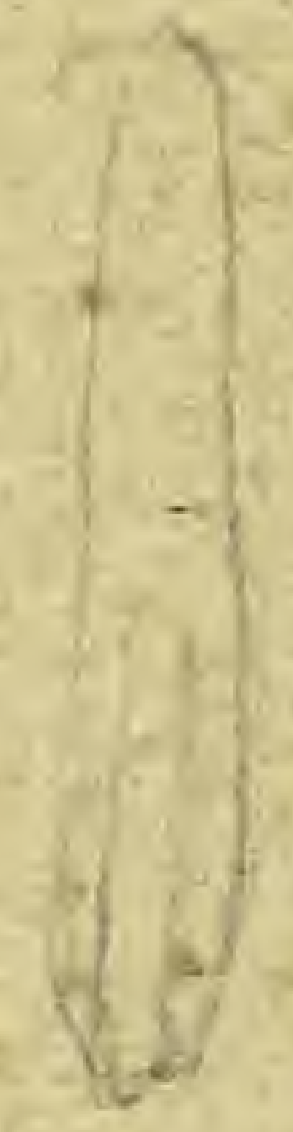
Sequoia gigantea
Dr Bigelow 1854

Dec 18 1878

× 4







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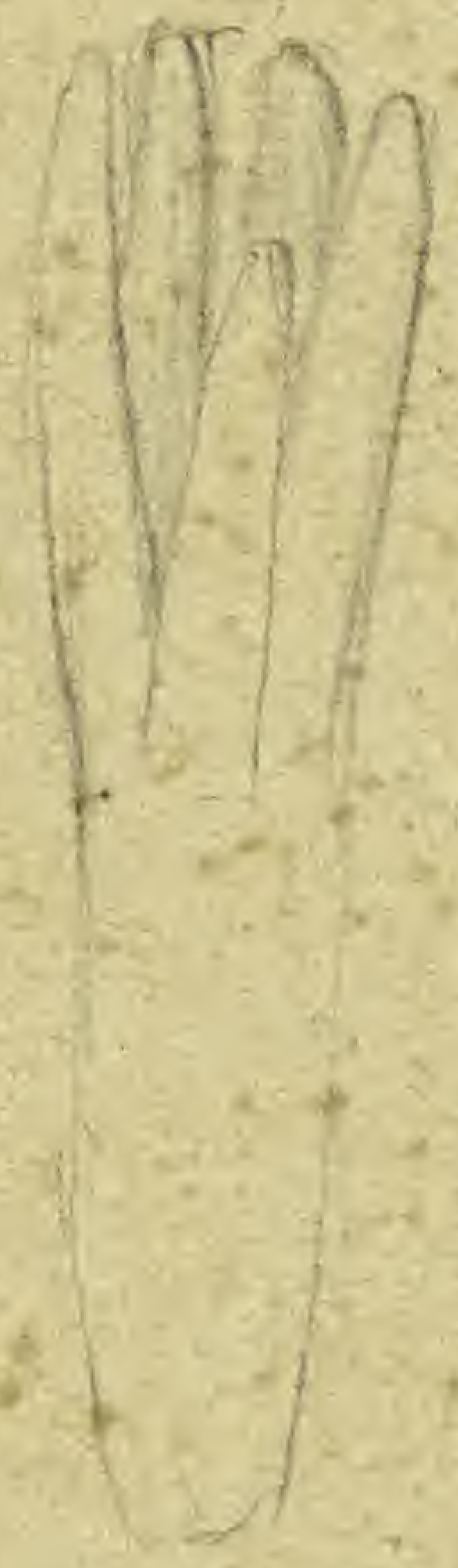

× 10
the only embryo
seen

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Mr De Candolle showed at the botanical Congress [illegible]

a strip of paper which Mr De la Rue had laid on the

stump of a Sequoia gigantea (a specimen, called the ~~Old~~ Old Ma

Man) and measured and marked the annual rings 1223, his assistant 1244,
1245

~~the mean of the two~~ is 1234.

See Gard. Chron. 1866 p. 1093 and 516 (?

Mary P. Olmsted sent to Prof Gray an account of a Sequoia

12 feet diam 5 feet from ground; height 280 feet, Number of rings

carefully counted by measuring off inches and sticking in pins: 1400.

14 25
57 75
27
2 60
1 00

82 60

10797

M. F

Documents.

Department of the Interior, ✓

Washington, Feb. 18th, 1878

Sir:

I have the honor to send to your address, by mail, this day, the following documents, viz:

Tertiary Flora of the West. Lesquereux

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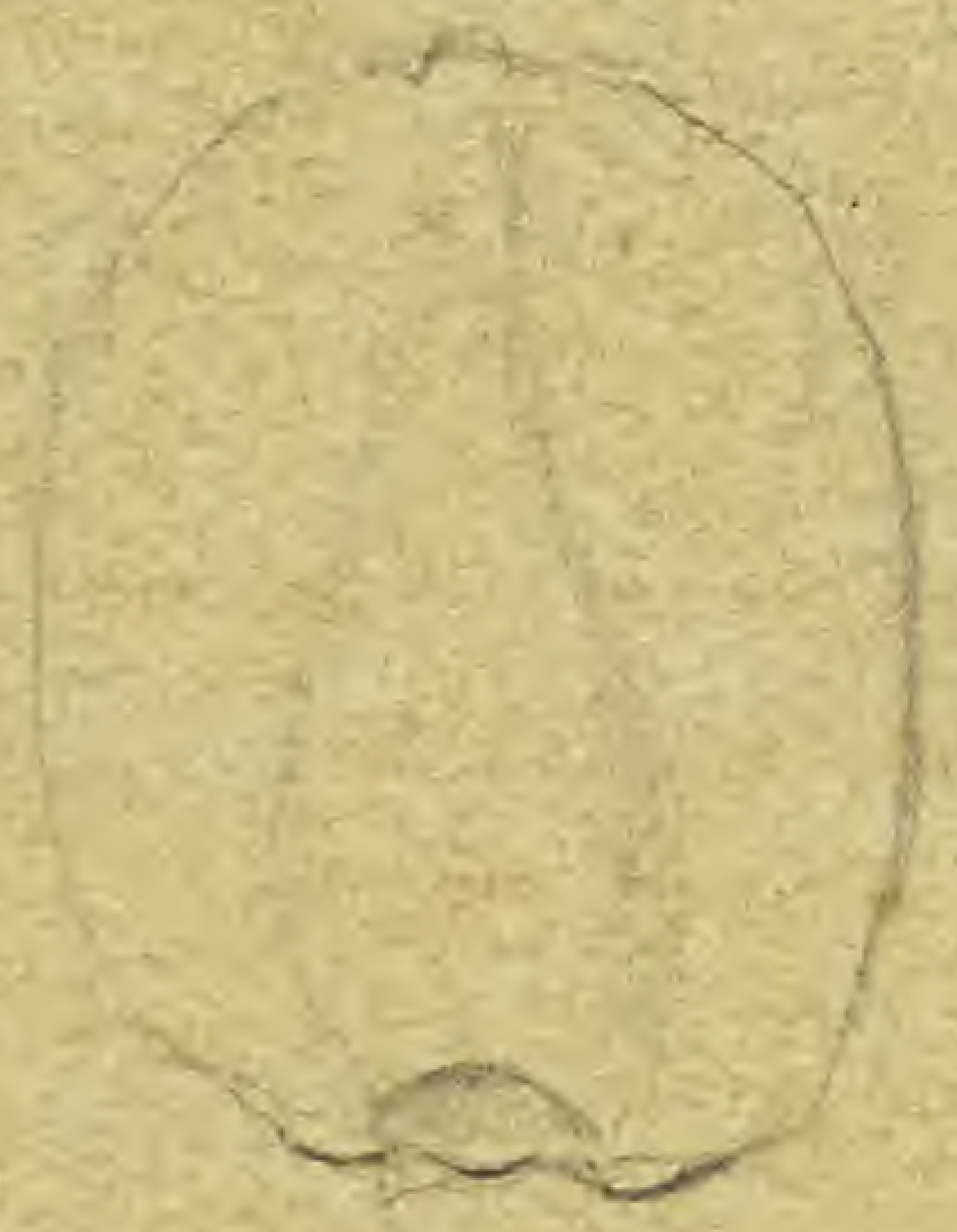
Sequoia sempervirens
Bolander

Dec 1878

Dec 18 1878

×4



Nuculae 3-7 saepius 5
oblongae v. late ovatae
saepius obliquae
2 alatae
embryo ort. tropus id
medio i cotyled. 4-6 patulis

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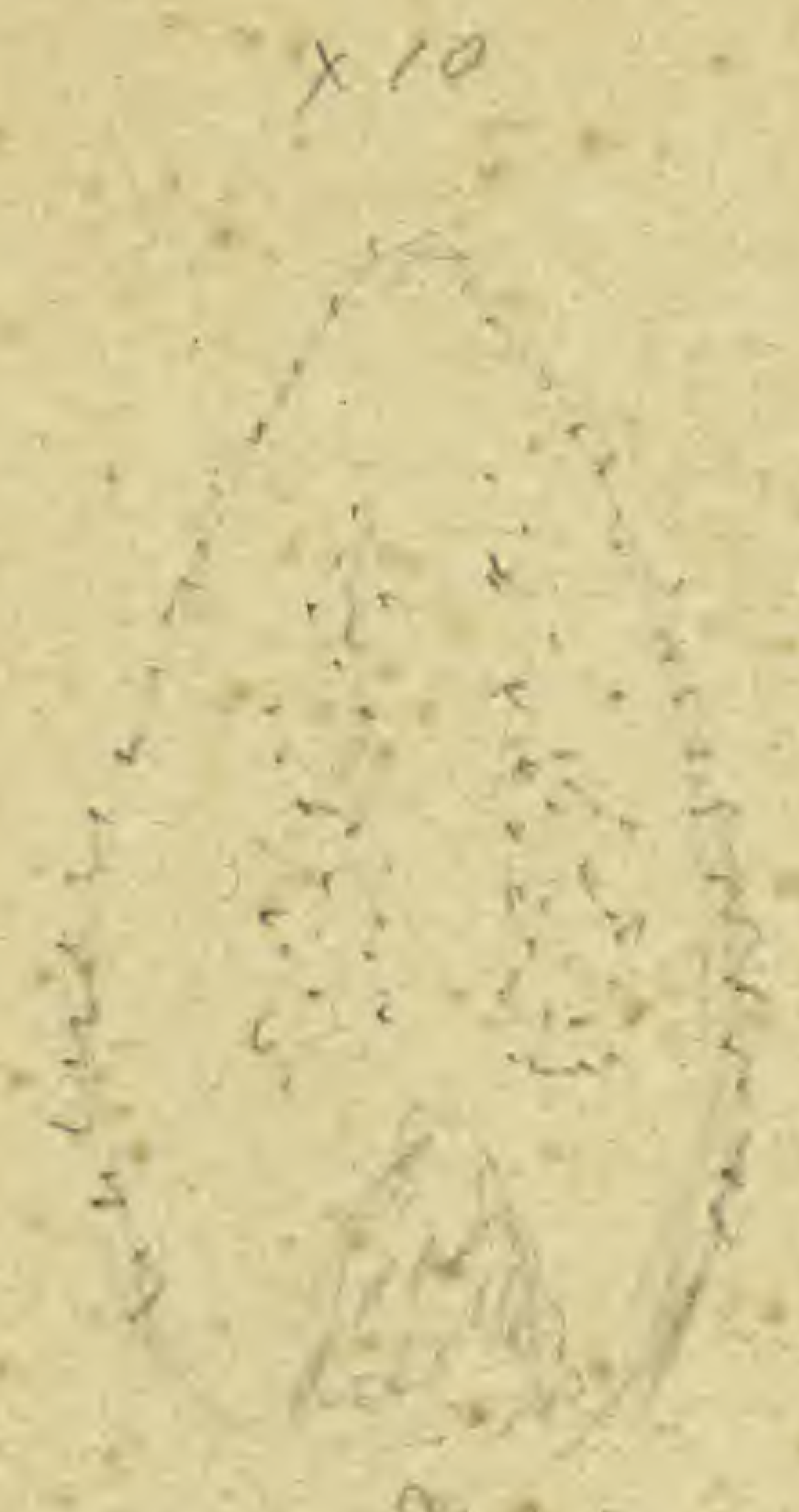
Sequoia sempervirens Dec 22 1878

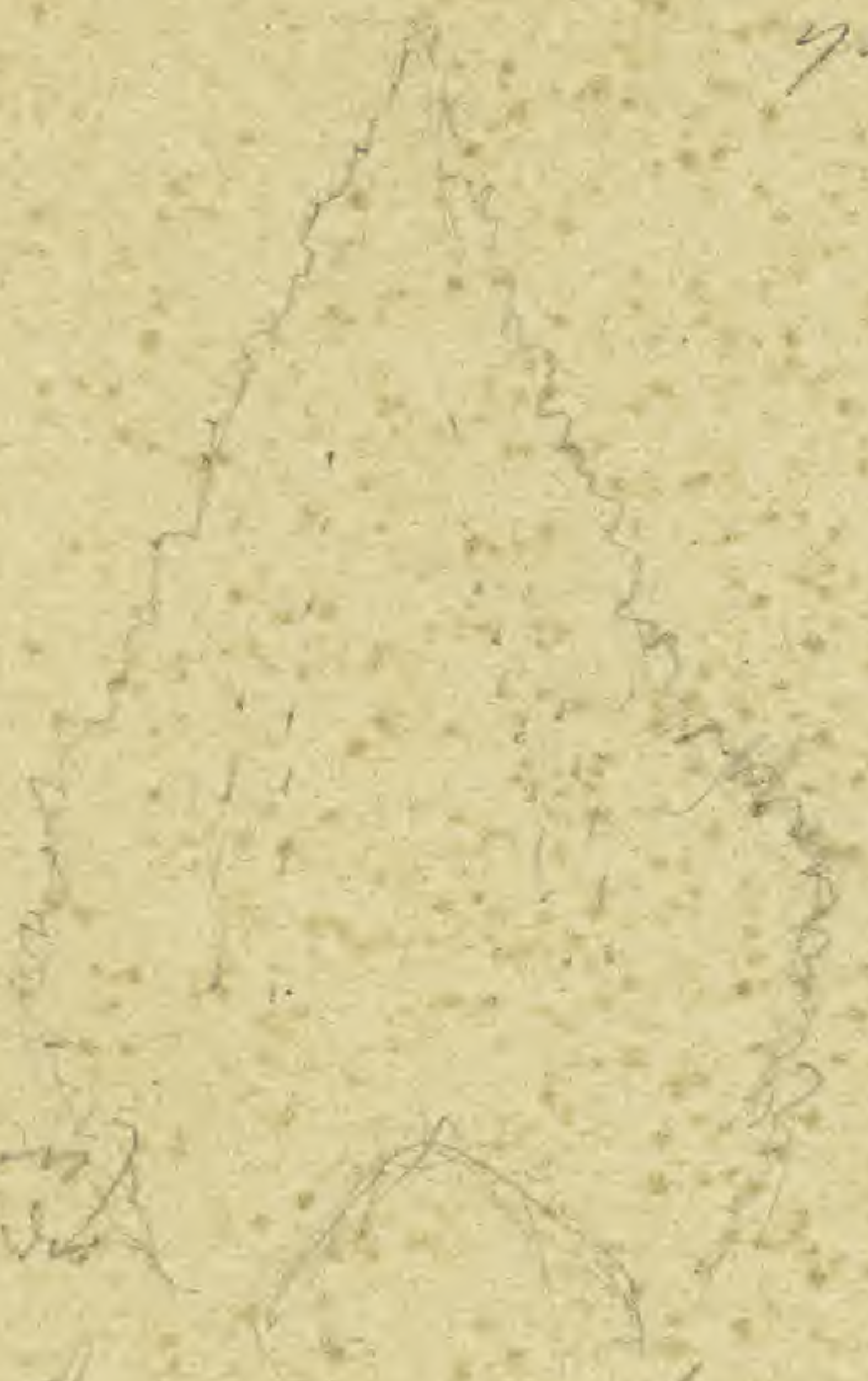
young cone No 1



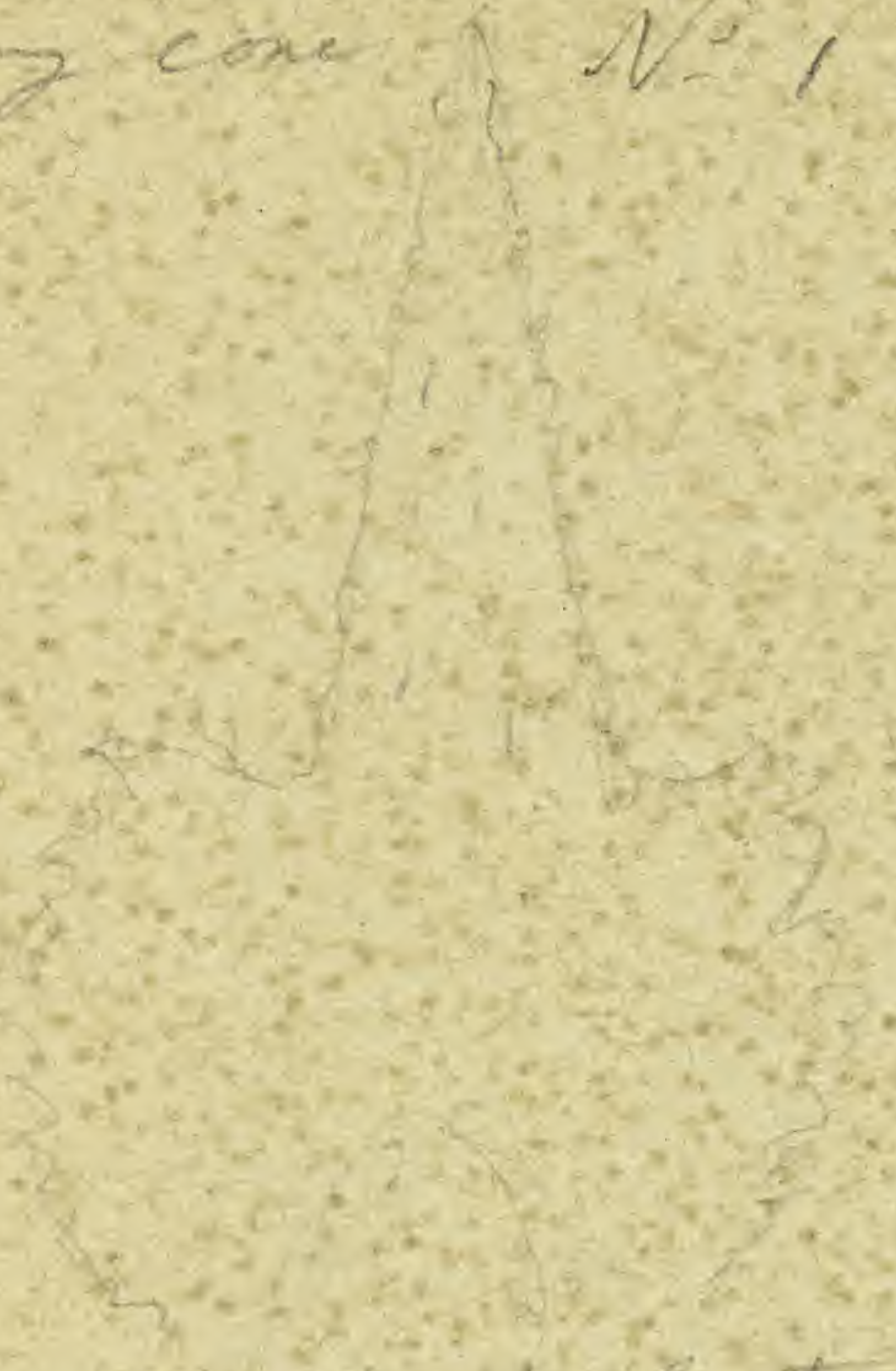
adhesion

edge denticulate
(entire in other leaves)
stomata on both sides

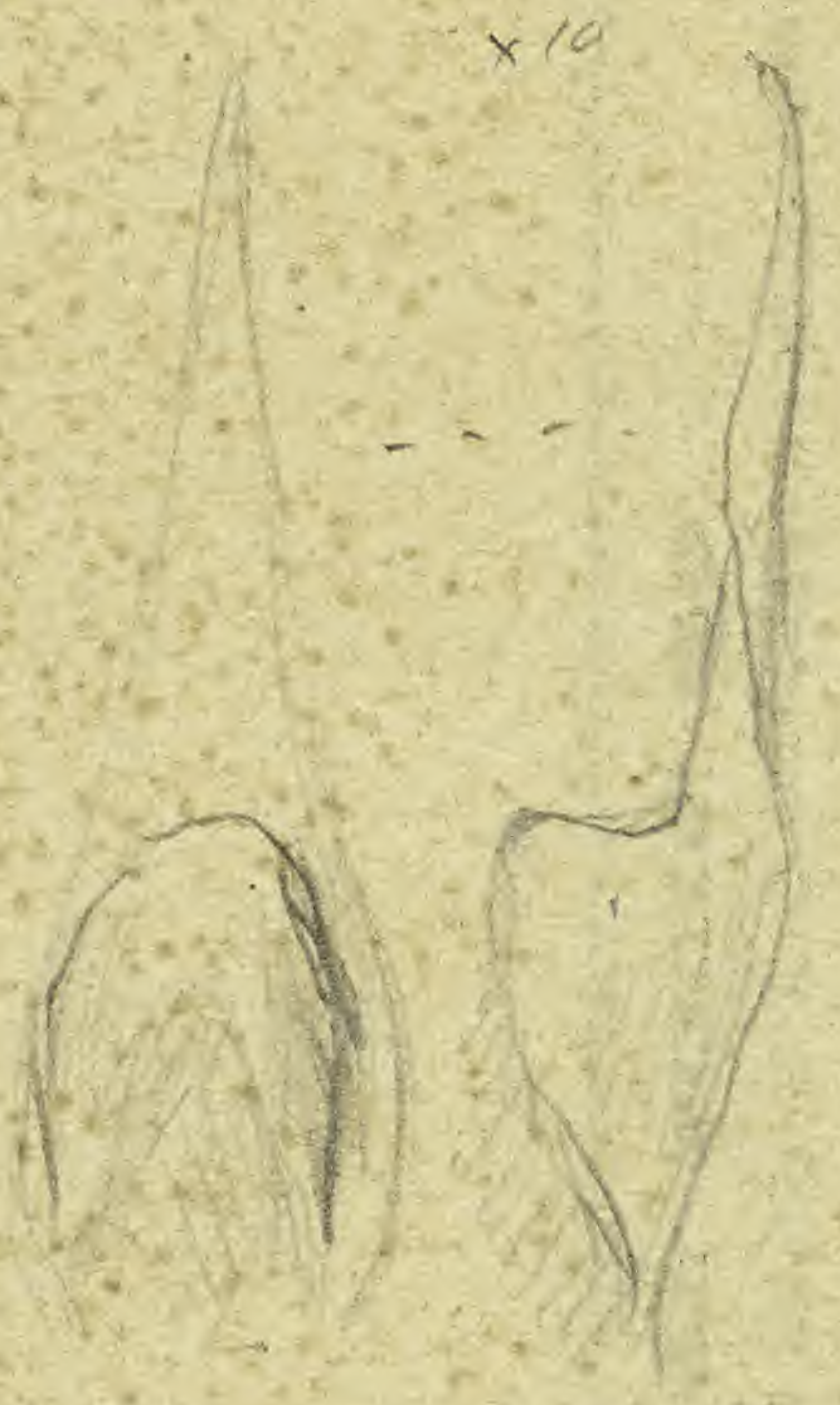
Uppermost leaves of
peduncle or flower-
bearing branchlet.
inside



uppermost
bracts



transition to bract
of cone, still.
few stomata



outermost bracts
of cone with imperfect
attached scale

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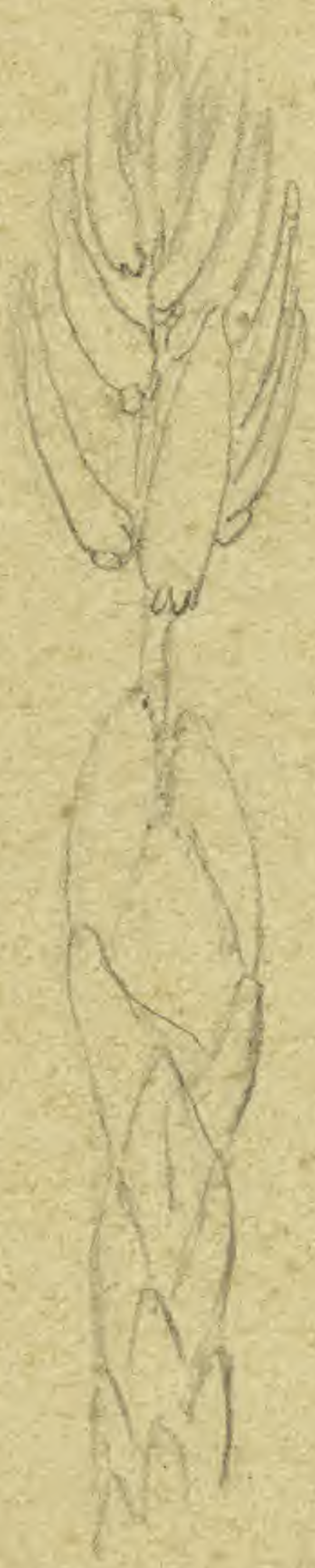
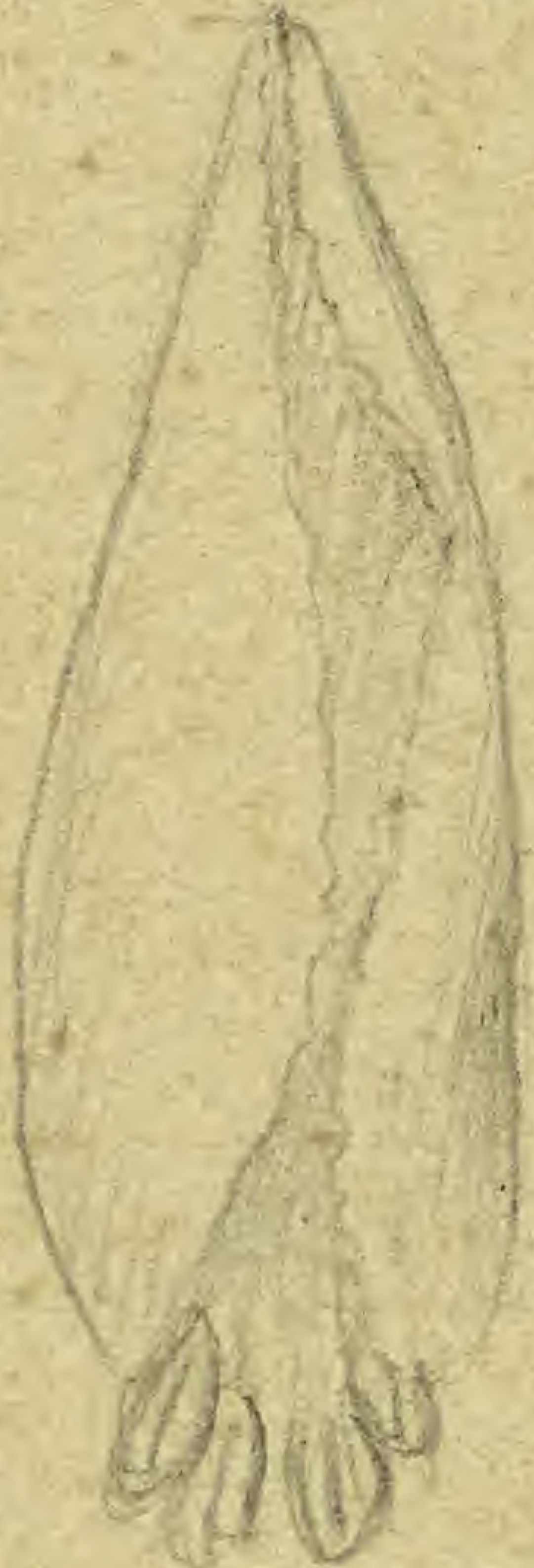
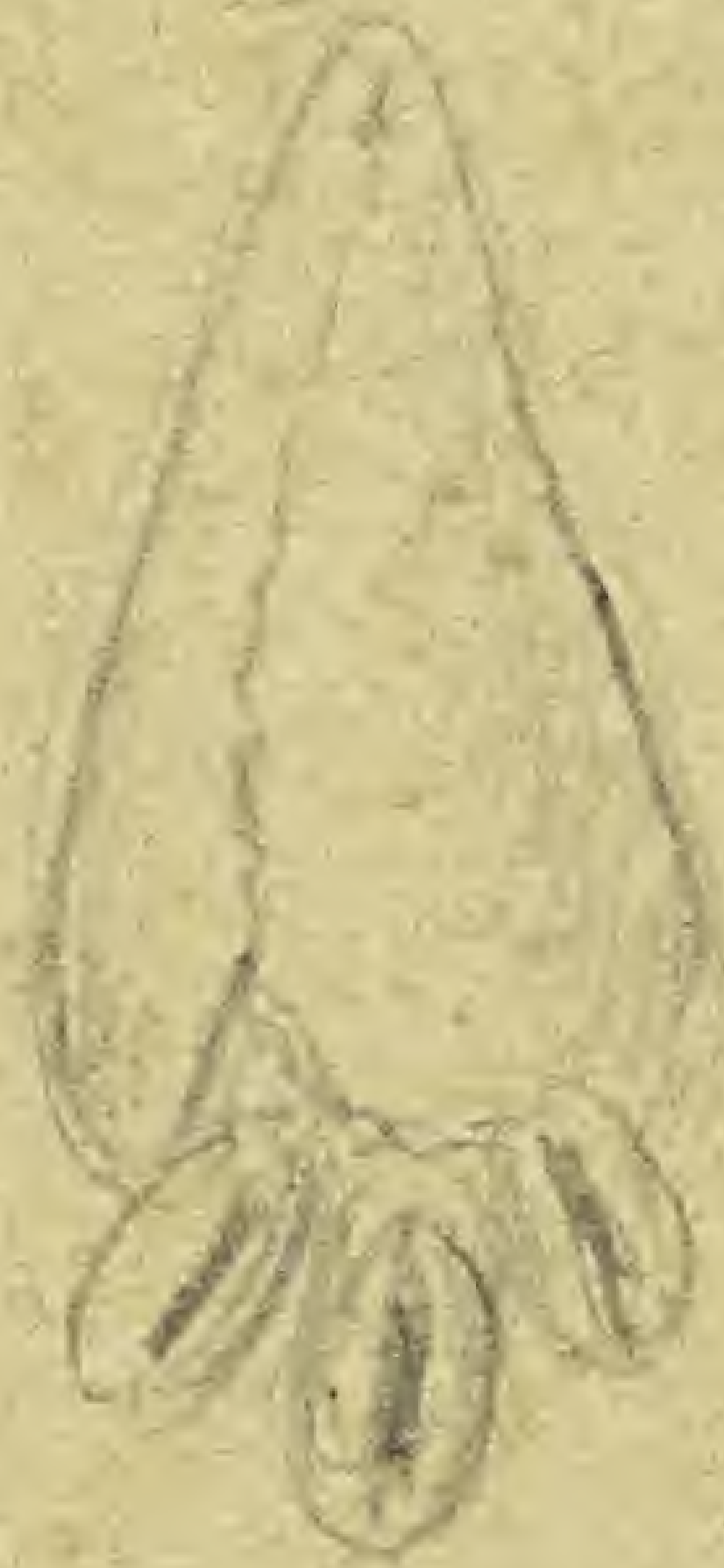
Sequoia gigantea Dec 24 1878

male fl

leaves with stomata on both sides







upper anther with 3 cells

inside

lower anther with 4 cells

oval scales rolled inwardly, not expanding, when soaked

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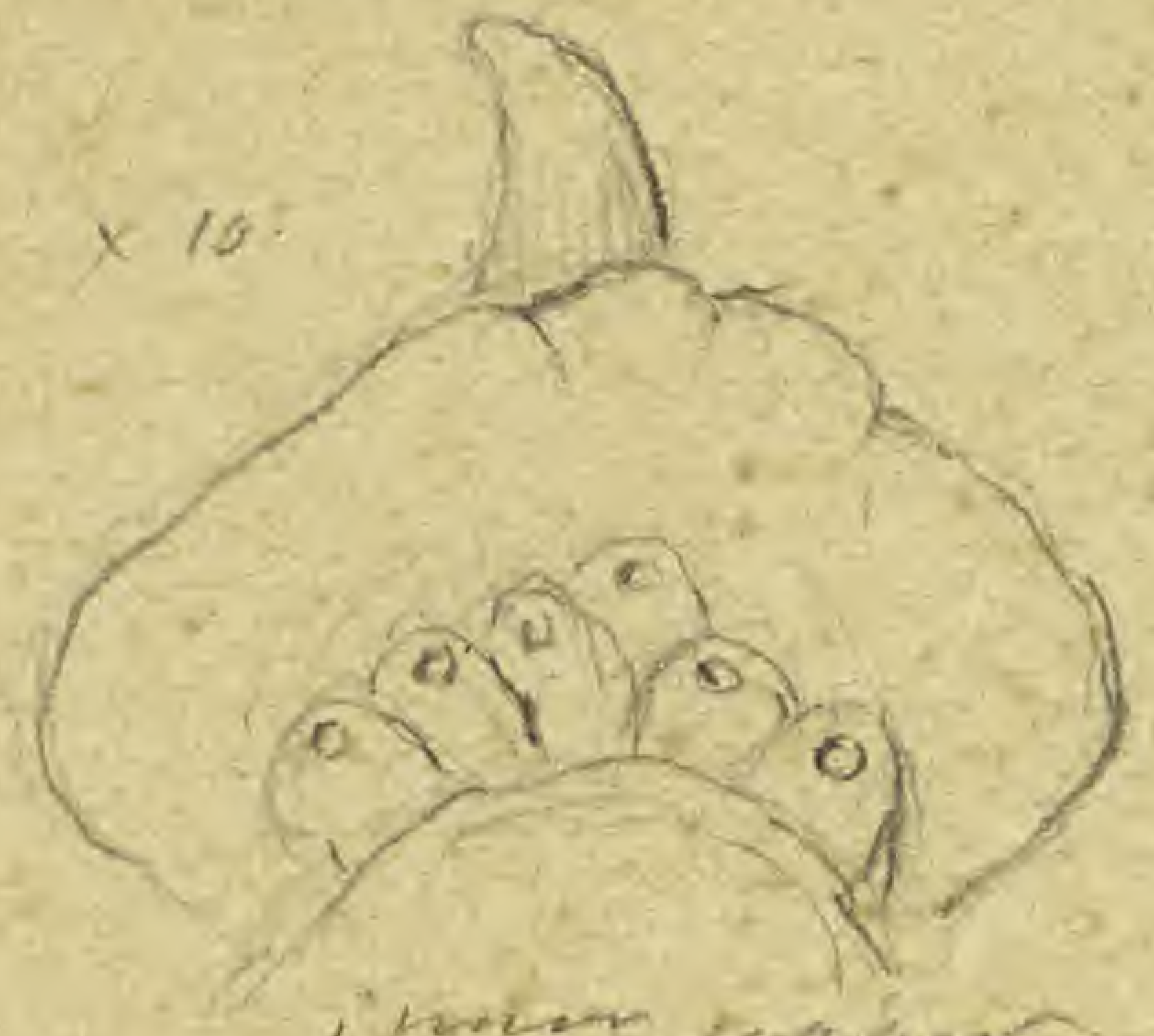
Sequoia sempervirens

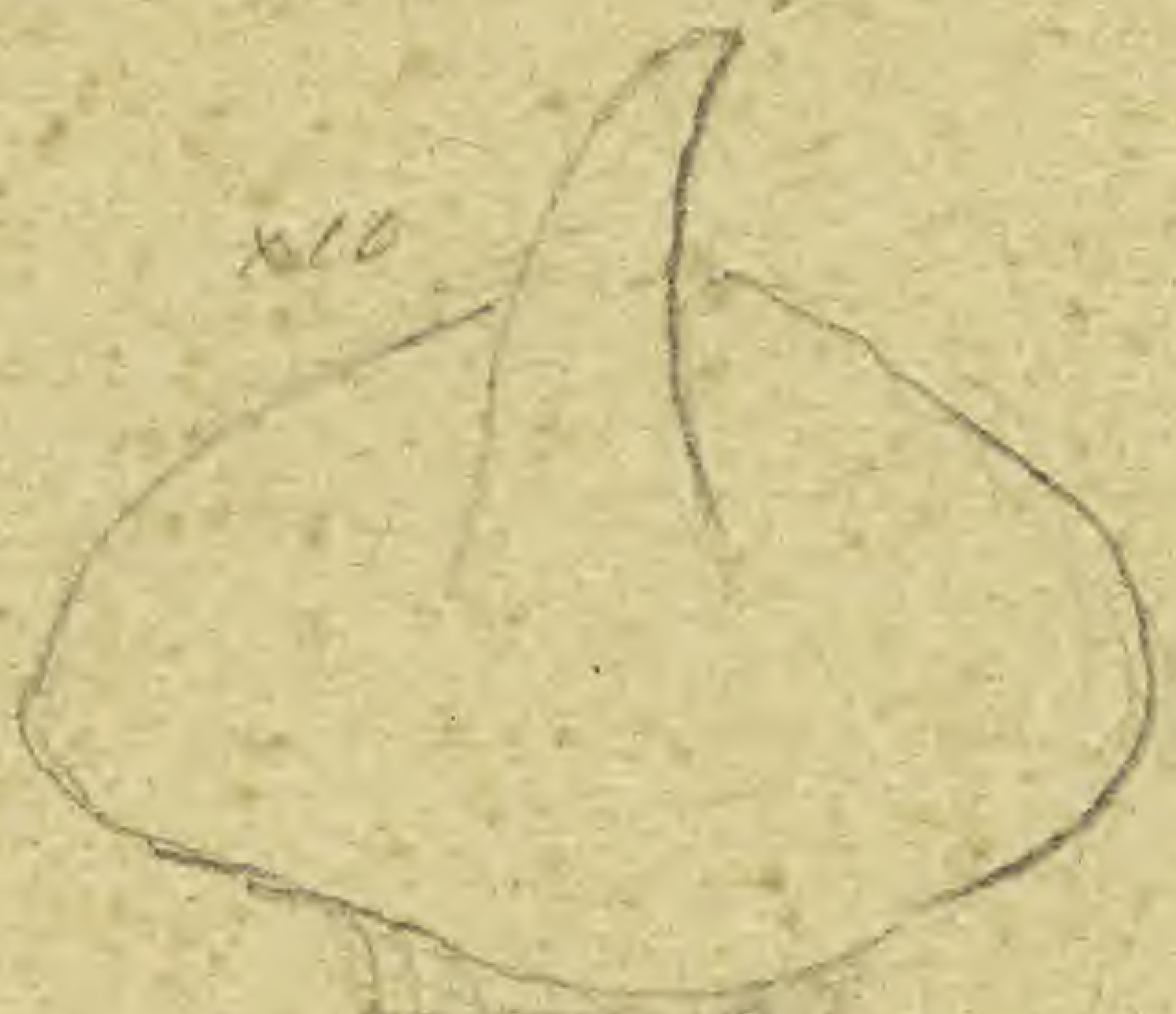
Dec. 22 '78

Monte Pincio cult. Febr 1869

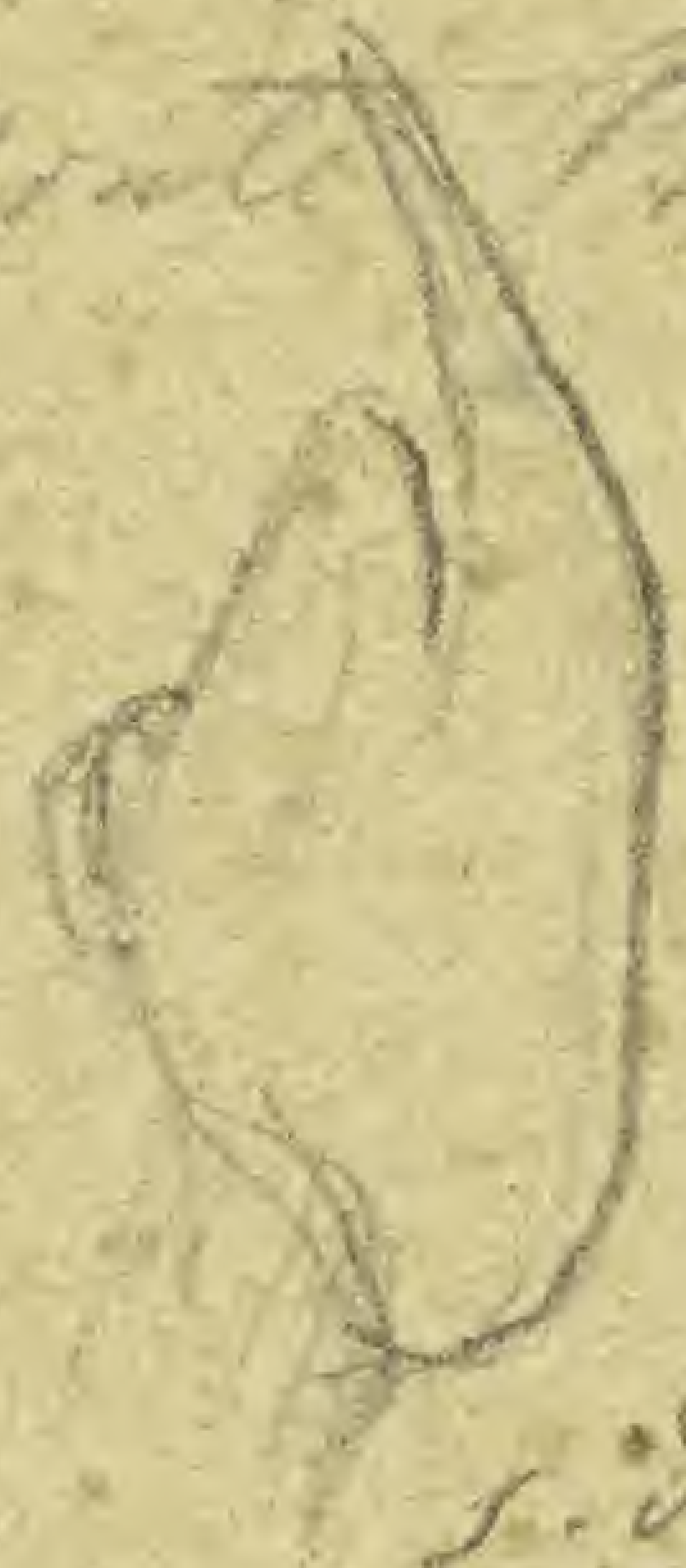
female flowers



inner, upper side

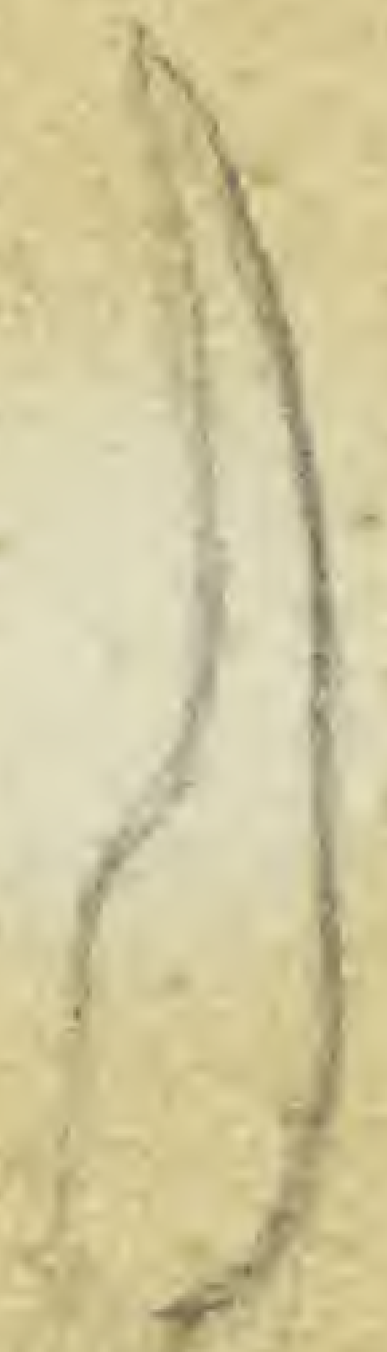


outer, lower side

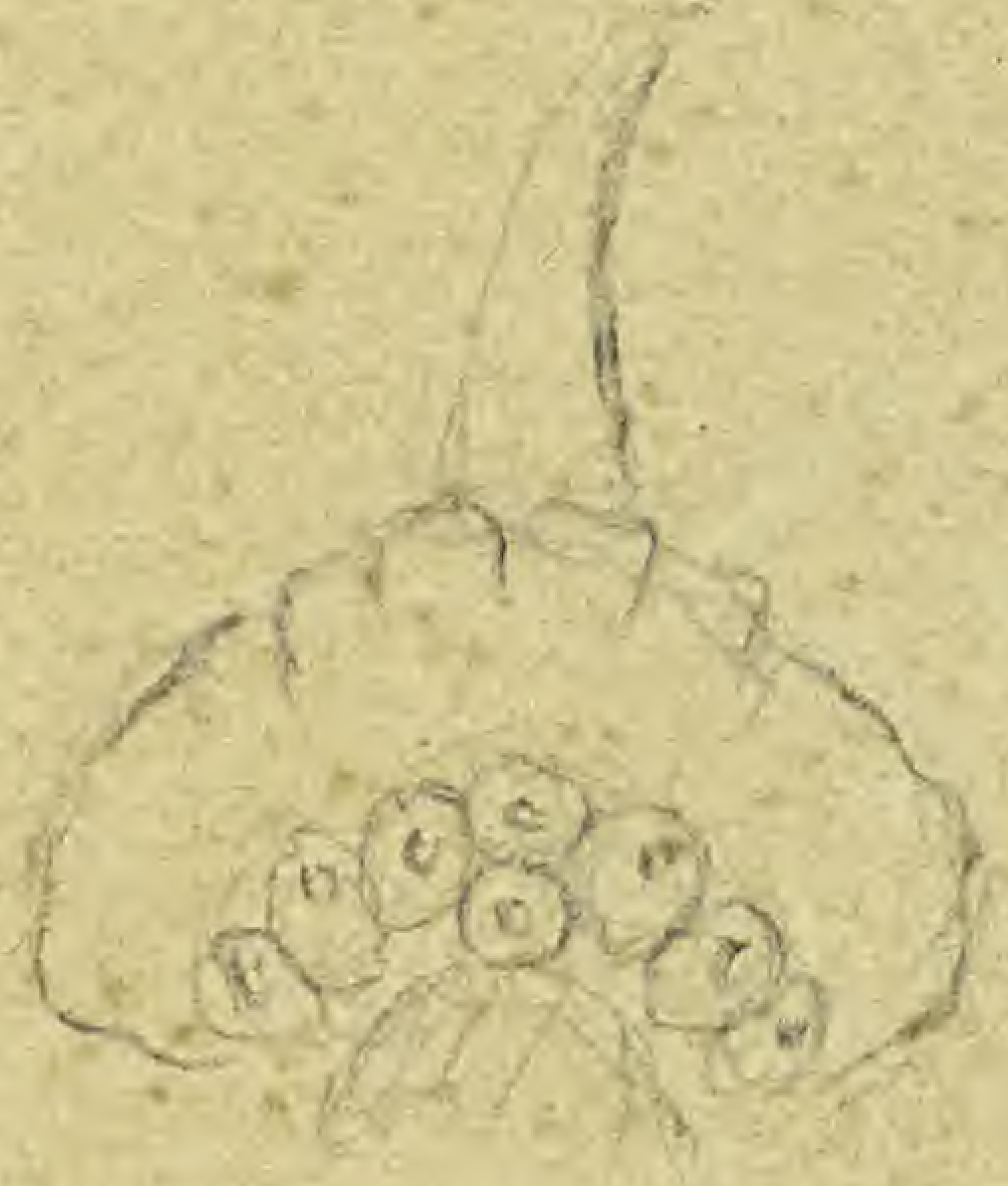


side view

bract with fruit scales



lowest, outermost, bract thickened at base indicating the fruit scale



scale of a younger flower with 8 ovules

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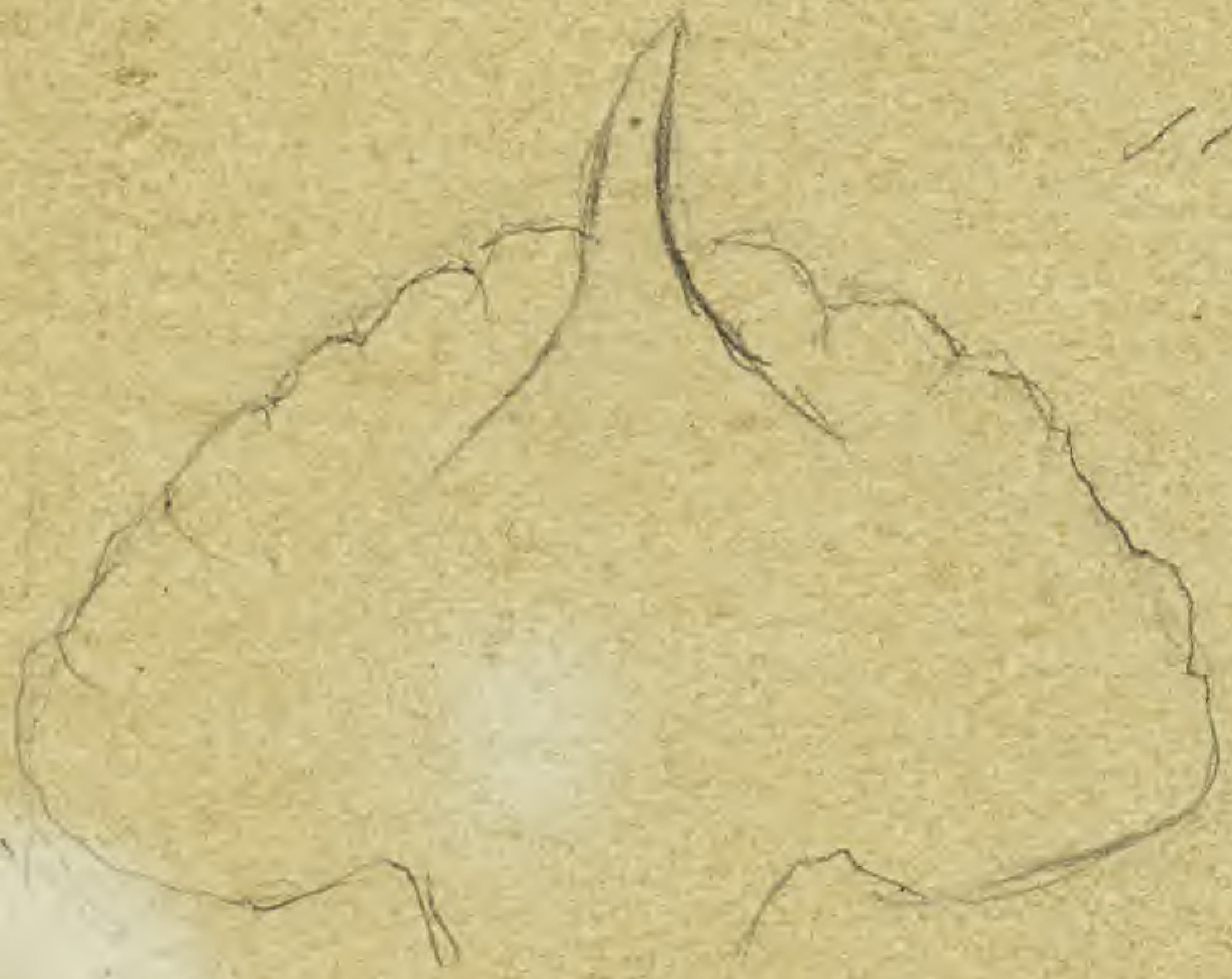
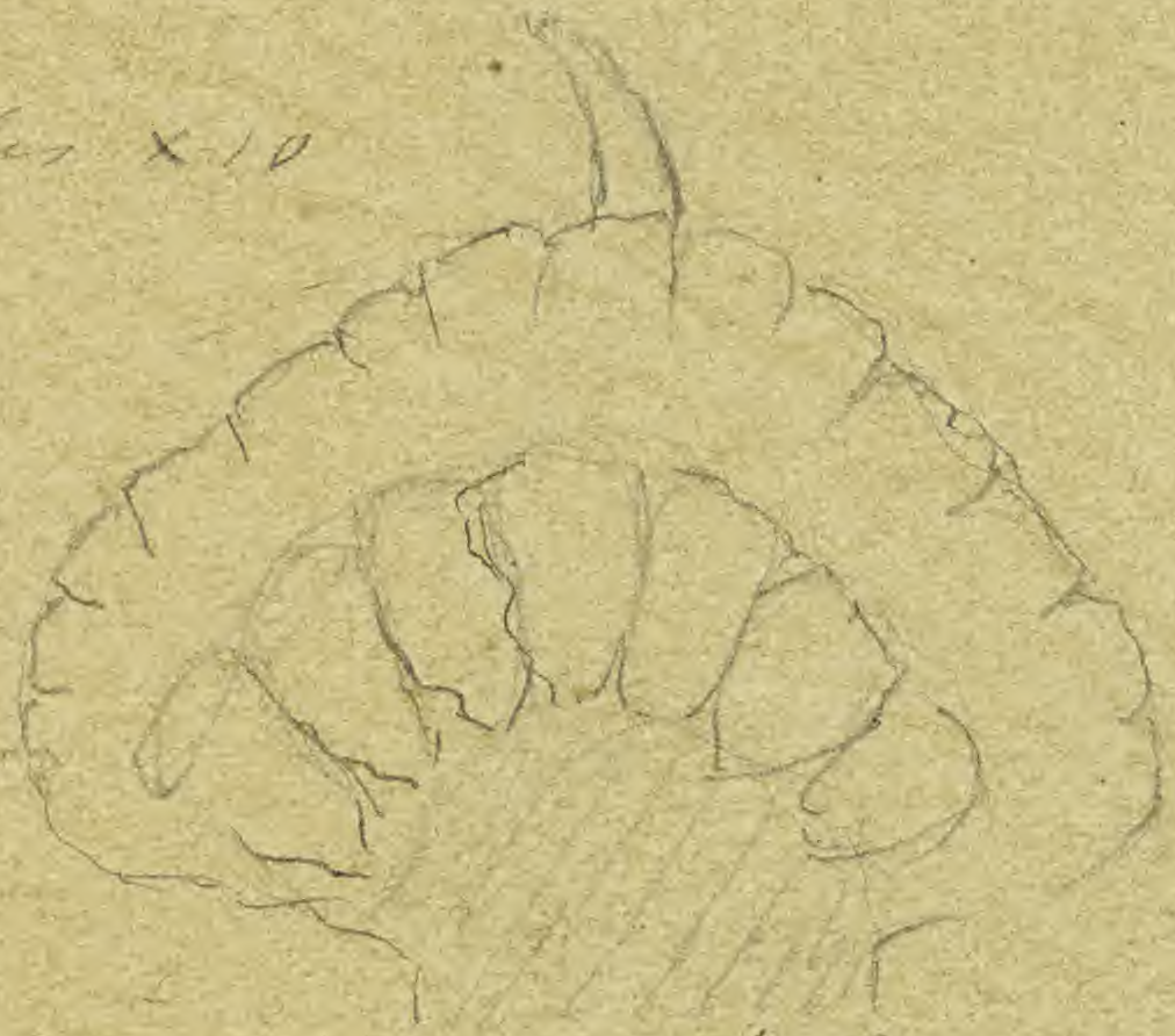
young fruit of Sequoia sempervirens 8ber 23 1879
No 1

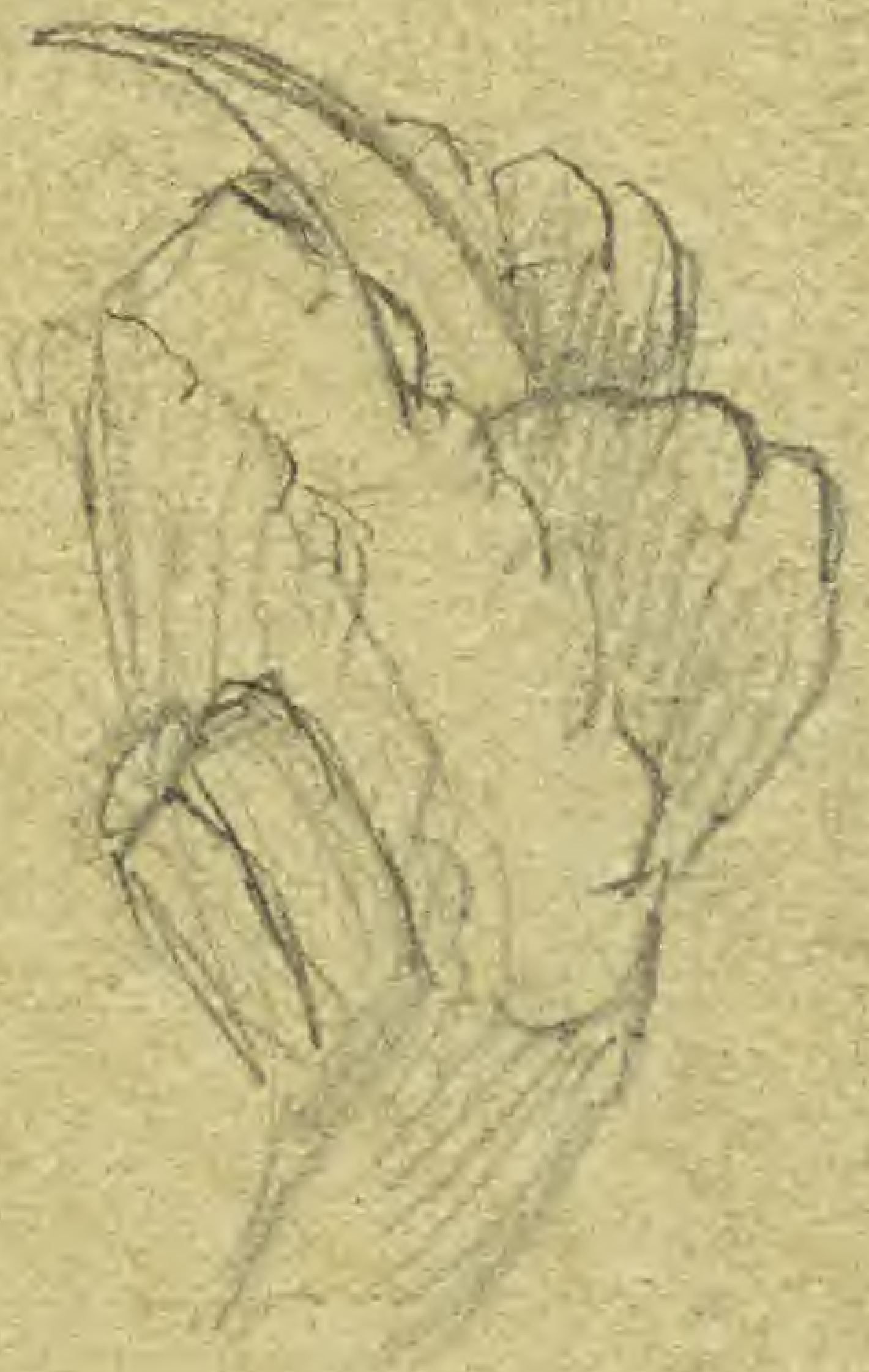
scales x 10



dorsal

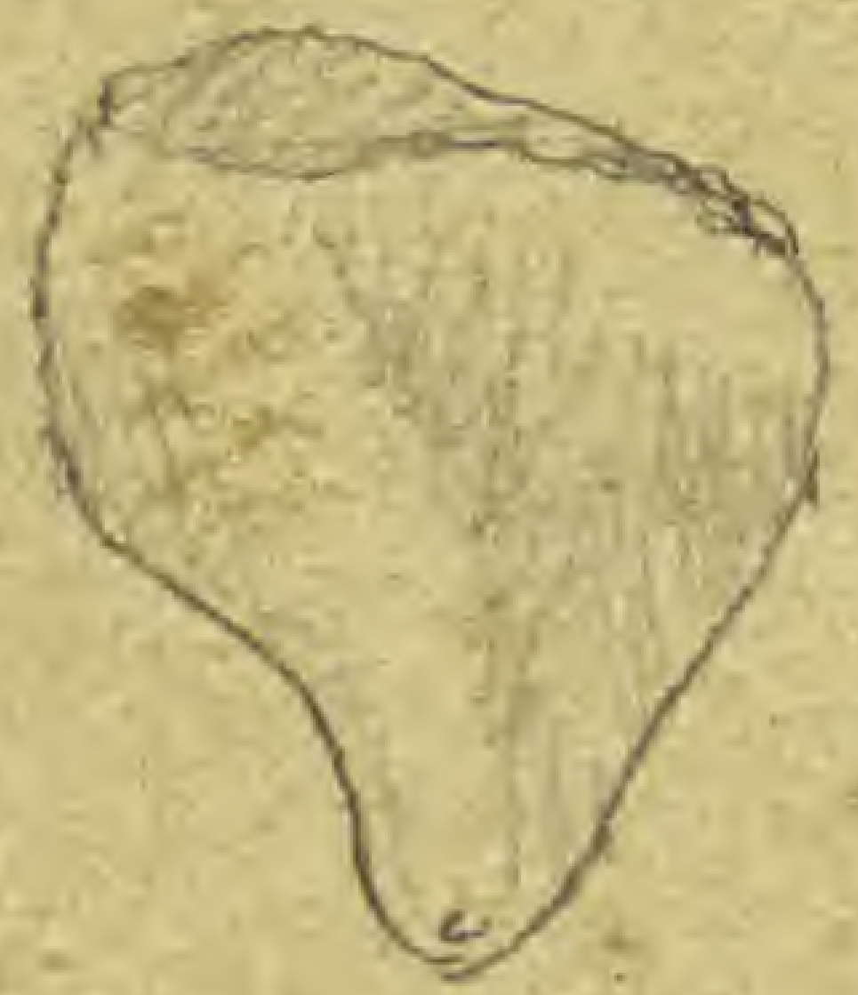


ventral



lateral

Oct 13 1879



seed
young ~~fruit~~ x 10
micropyle visible
hilum and attachement
(chalaza) above

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Sequoia gigantea Prof Brewer enumerates 13 localities, single trees or groves. — a belt of very nearly 200 miles

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Cultivated Sequoias
notes from
Gardeners Chronicle

see Amelanchier
paper
June 22 1878

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Sequoia sempervirens Monterey Hrcke

HG Pray Jly 1869

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Bolander Aug 14 1868

Redwood has its northern limit at 42° N Lat. at the Oregon line. where the summer fogs cease which seem essential to its well being

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Remember when you are in want of any Perfumery, Fine Bay Rum, English and French Brushes, Cut Glass Bottles, Writing Paper, Visiting Cards, Soaps, Colognes, Extracts in bulk for the Handkerchief, Sponges, Odor Cases, or any Toilet Article, you can find a Complete Stock at C. K. Jones & Co., 2800 Washington Avenue. Also remember when compelled to buy any Medicines, that they keep a full and fresh stock, which are dispensed by experienced Pharmacists.

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